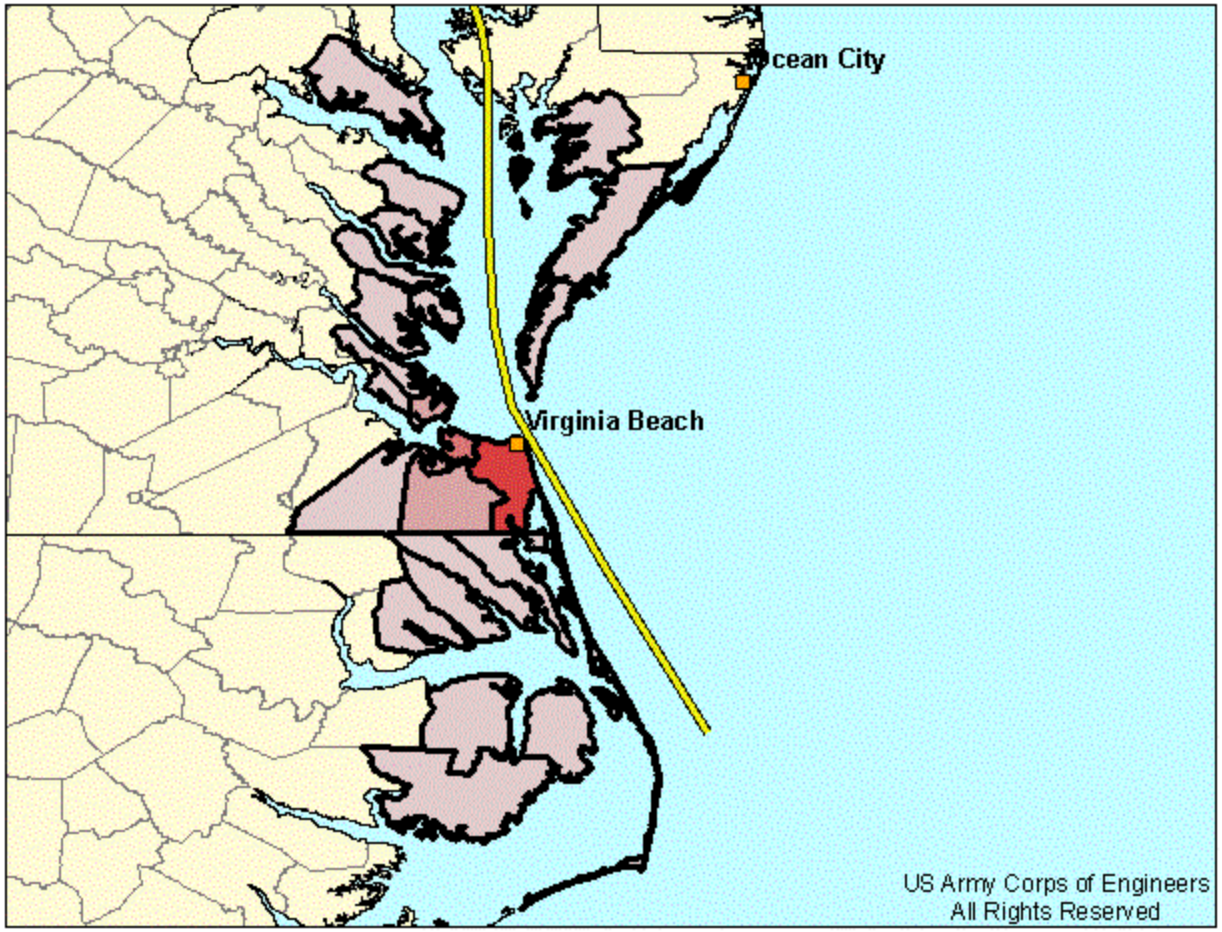
US Army Corps of Engineers

Hurricane MD#3 Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Virginia - 1,816,000 Yards
North Carolina - 125,000 Yards
Maryland - 3,000 Yards

Model results per County on following page

This model is based on a Category 1 storm making landfall near Hoopersville, MD.

Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 1 storm making landfall near Hoopersville, MD. These projections are based on information from the NHC (1100 EDT 05/16/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane MD#3 Debris Model	
Generated By: Siemsen, LRL 1130 EDT 05/16/2008	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 12

US Army Corps of Engineers

Hurricane MD#3 Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Maryland		Somerset	< 1,000
		St Mary's	3,000
Maryland	3,000		
North Carolina		Camden	11,000
		Currituck	30,000
		Dare	47,000
		Hyde	2,000
		Pasquotank	33,000
		Perquimans	< 1,000
		Tyrrell	2,000
North Carolina	125,000		
Virginia		Accomack	24,000
		Chesapeake city	248,000
		Gloucester	6,000
		Hampton City	176,000
		Lancaster	11,000
		Mathews	14,000
		Middlesex	7,000
		Newport News city	40,000
		Norfolk City	312,000
		Northampton	17,000
		Northumberland	12,000
		Poquoson City	15,000
		Portsmouth city	143,000
		Suffolk City	5,000
		Virginia Beach city	770,000
		York	16,000
Virginia	1,816,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Hurricane MD#3 Debris Model

Generated By:
Siemsen, LRL 1130 EDT 05/16/2008

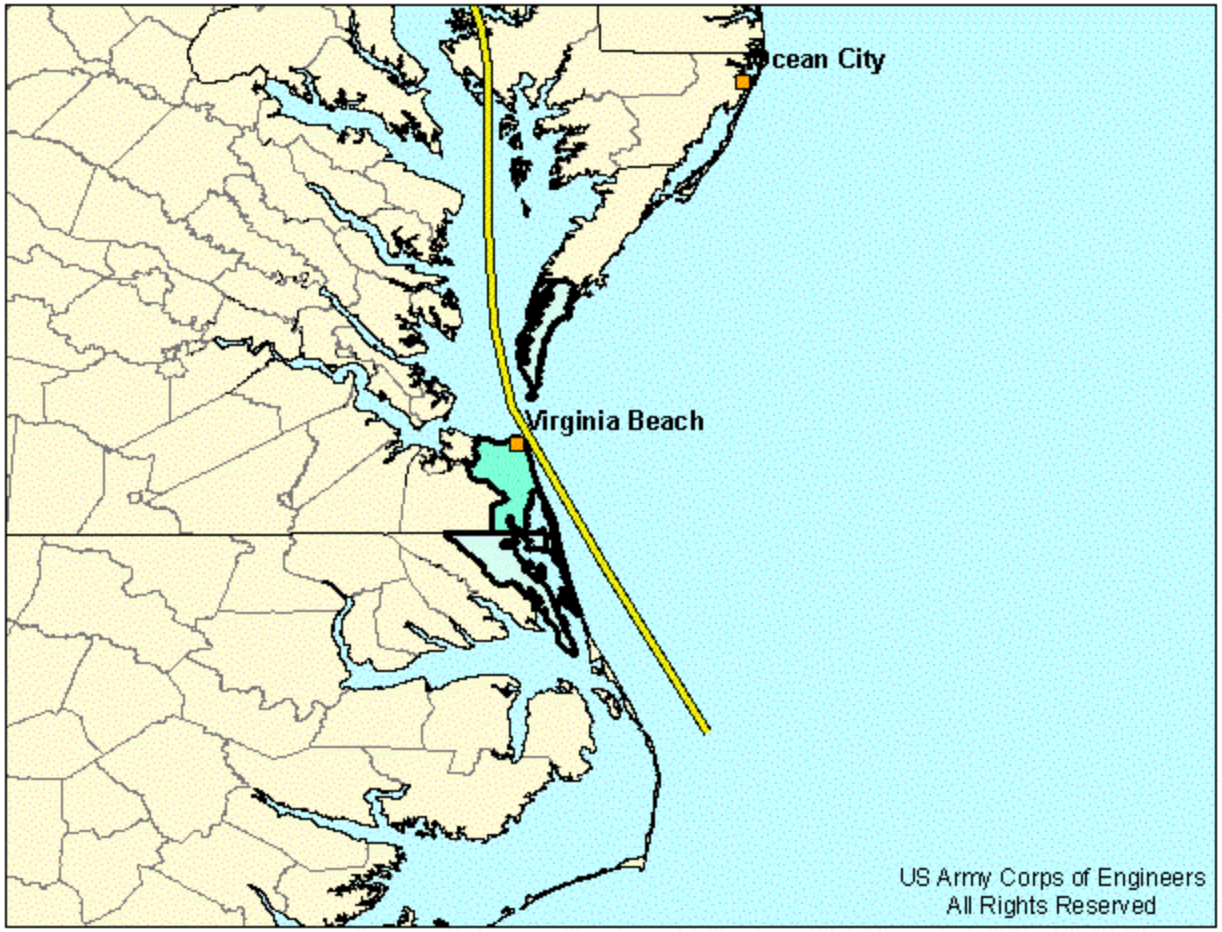
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane MD#3 Commodities Model

Landfall Plus About **12** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
VA – 2/4/8 Truckloads
NC – 1/1/1 Truckload

Model results per County on following page

This model is based on a Category 1 storm making landfall near Hoopersville, MD.

Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 1 storm making landfall near Hoopersville, MD. These projections are based on information from the NHC ***(1100 EDT 05/16/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane MD#3 Commodities Model	
Generated By: Siemsen, LRL 1130 EDT 05/16/2008	
Sources: HURREVAC LRL-DEBRIS	Page 3 of 12

US Army Corps of Engineers

Hurricane MD#3 Commodities Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
North Carolina		Currituck	1
North Carolina	1		
Virginia		Northampton	1
		Virginia Beach city	7
Virginia	8		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane MD#3 Commodities Model

Generated By:
Siemsen, LRL 1130 EDT 05/16/2008

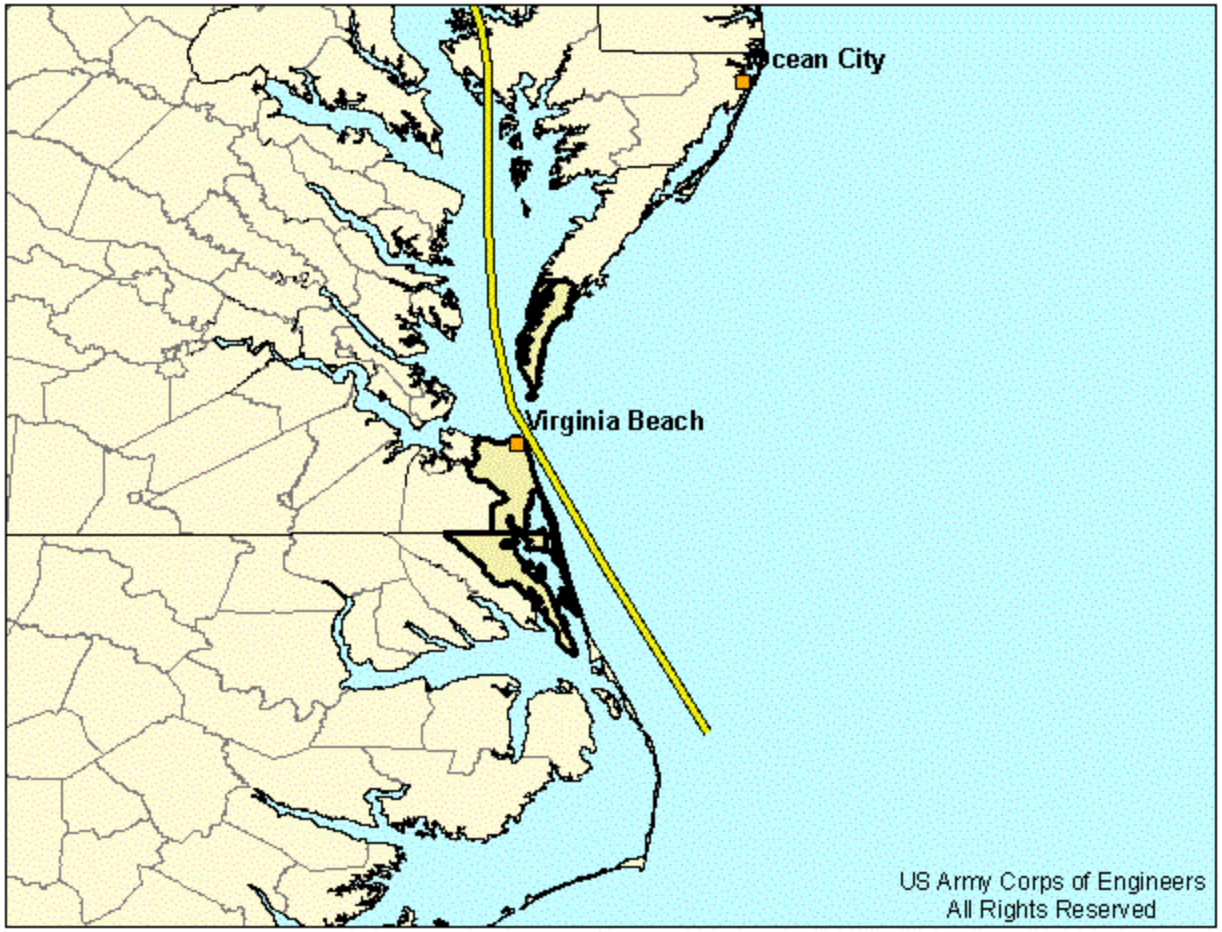
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane MD#3 Temporary Roofing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Virginia - 1,200

Model results per County on following page

This model is based on a Category 1 storm making landfall near Hoopersville, MD.

Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall near Hoopersville, MD. These projections are based on information from the NHC (1100 EDT 05/16/2008) forecast. Temporary roofing is based on 3% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane MD#3 Roofing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 5 of 12

US Army Corps of Engineers

Hurricane MD#3 Temporary Roofing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
North Carolina		Currituck	< 100
North Carolina			
Virginia		Northampton	< 100
		Virginia Beach city	1,200
Virginia	1,200		

Temporary roofing is based on 3% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane MD#3 Roofing Model

Generated By:
Siemsen, LRL 1130 EDT 05/16/2008

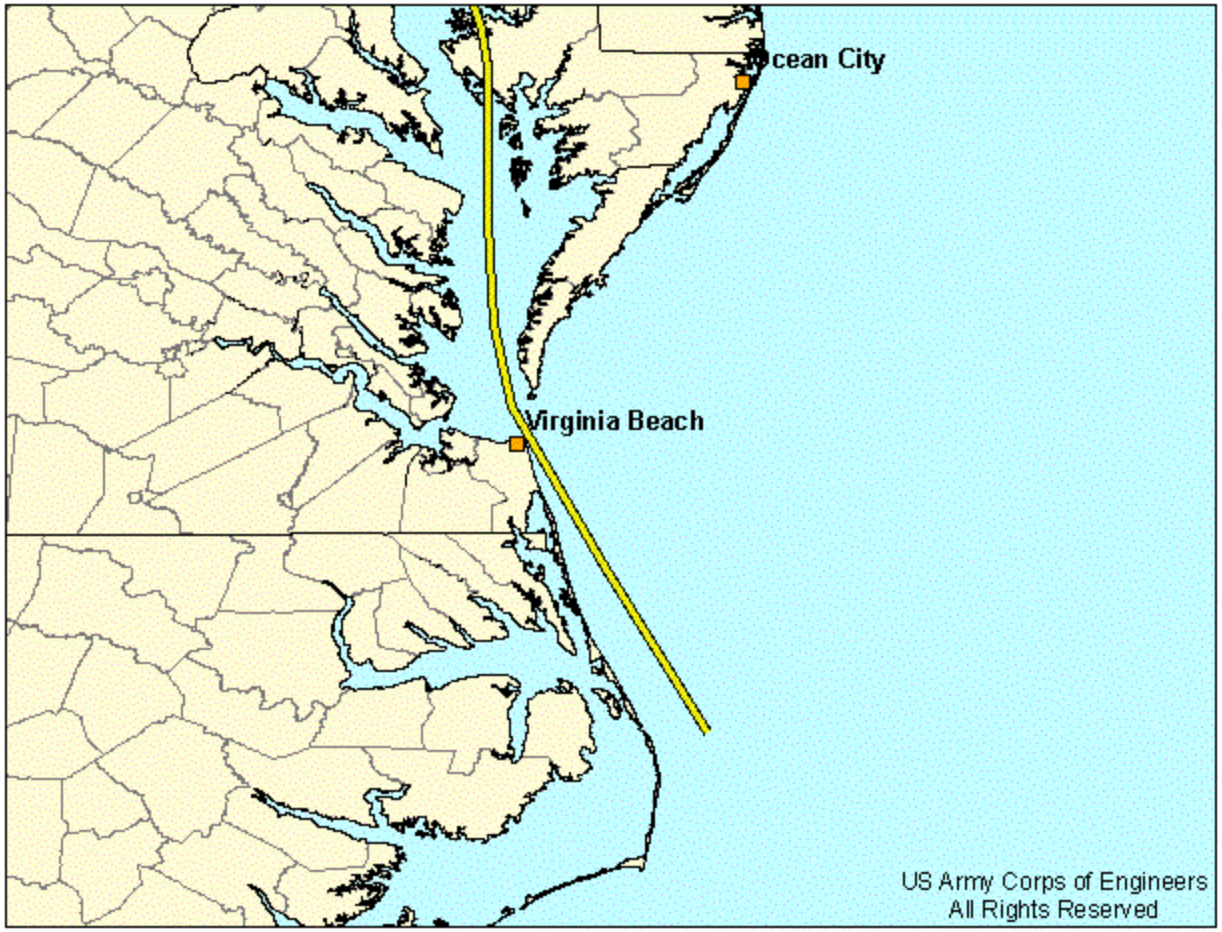
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane MD#3 Temporary Housing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Temporary Housing Model Results

Model results per County on following page

This model is based on a Category 1 storm making landfall near Hoopersville, MD.

Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall near Hoopersville, MD. These projections are based on information from the NHC (1100 EDT 05/16/2008) forecast. Temporary housing is based on nothing.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane MD#3 Housing Model	
Generated By: Siemsen, LRL 1130 EDT 05/16/2008	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane MD#3 Temporary Housing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
		No Temporary Housing need expected	

Temporary housing is based on nothing.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane MD#3 Housing Model

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Sources:
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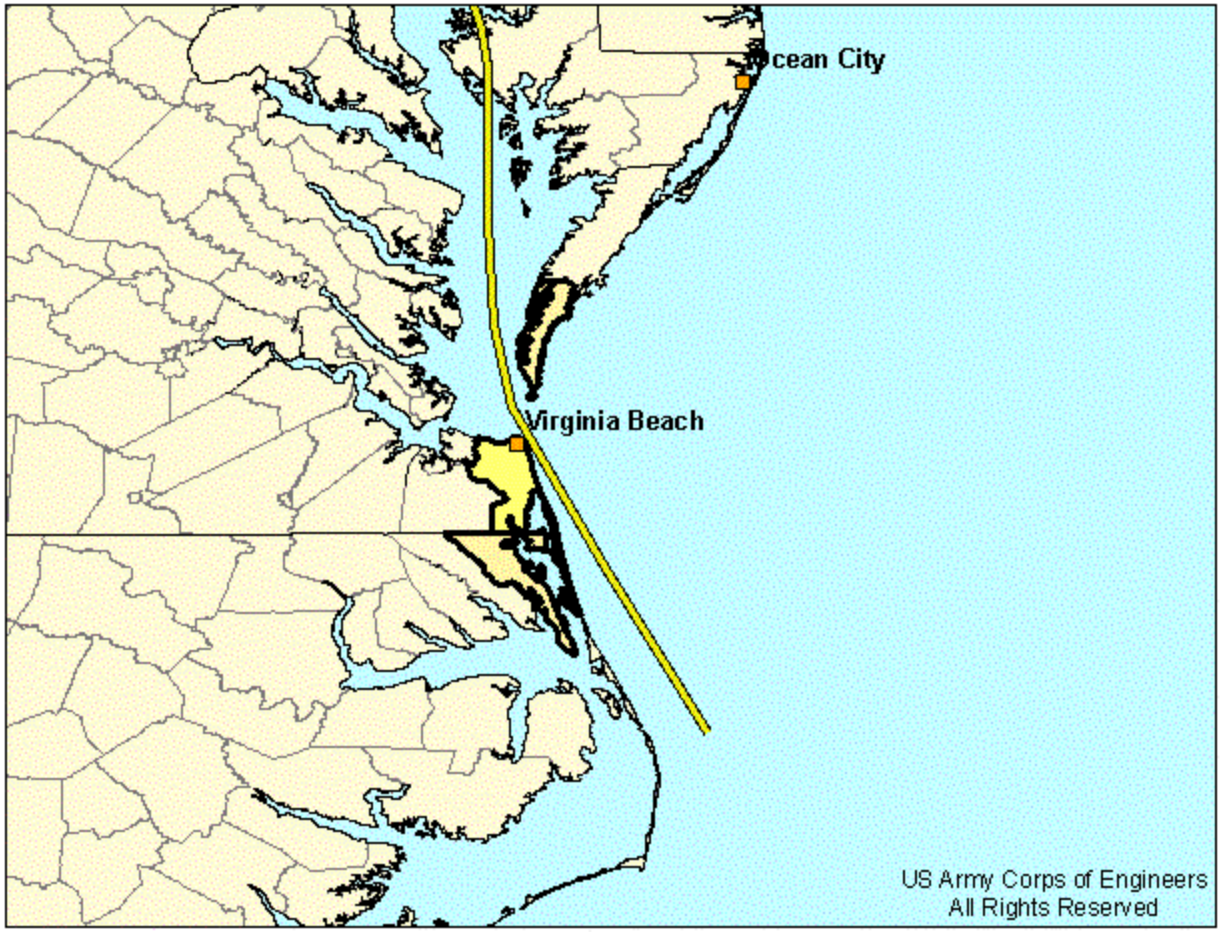
LRL-DEBRIS

US Army Corps of Engineers

Hurricane MD#3 Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Virginia - 93,000

Model results per County on following page

This model is based on a Category 1 storm making landfall near Hoopersville, MD.

Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 1 storm making landfall near Hoopersville, MD. These projections are based on information from the NHC (1100 EDT 05/16/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane MD#3 Population Model	
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US Army Corps of Engineers

Hurricane MD#3 Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
North Carolina		Currituck	< 1,000
North Carolina			
Virginia		Northampton	< 1,000
		Virginia Beach city	93,000
Virginia	93,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane MD#3 Population Model

Generated By:
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Sources:
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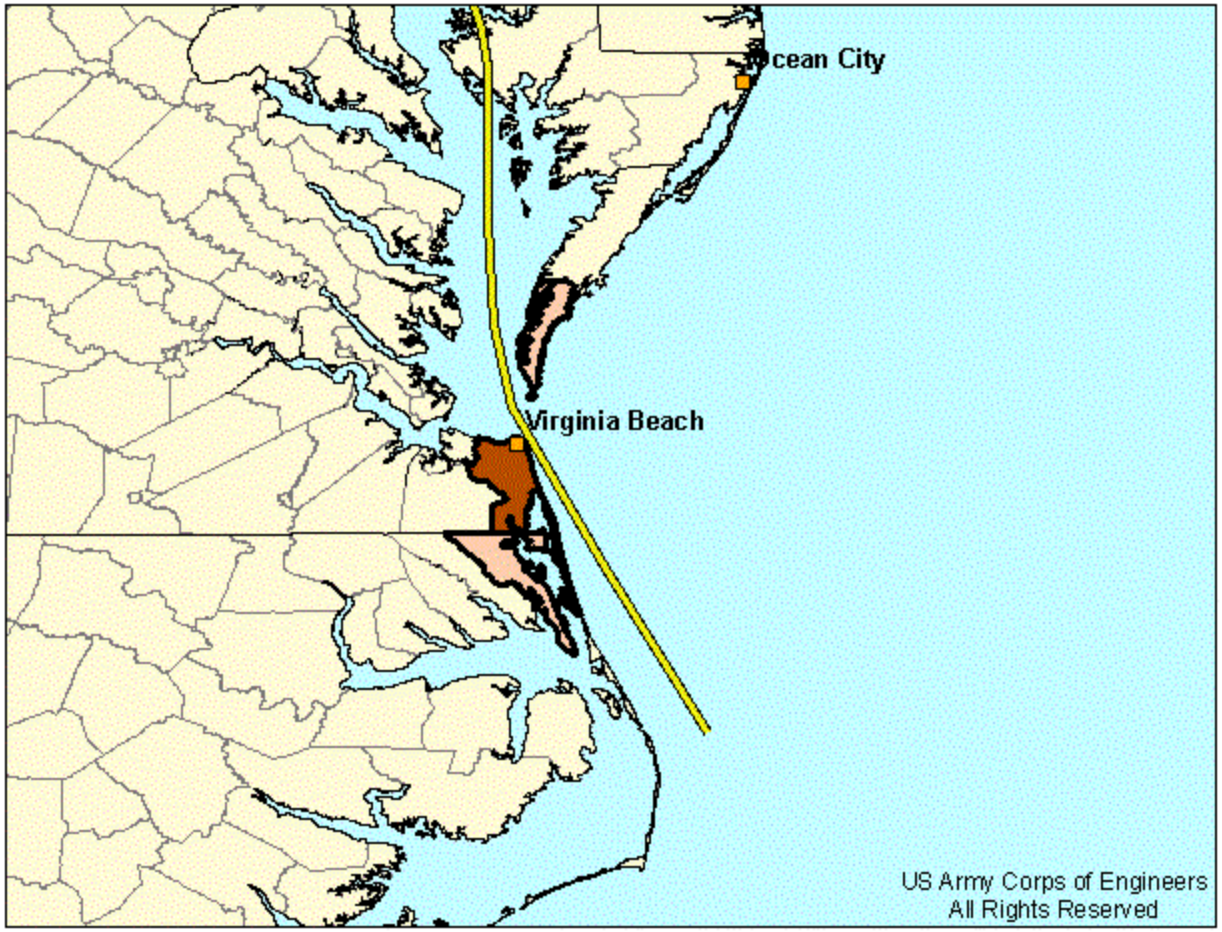
LRL-DEBRIS

US Army Corps of Engineers

Hurricane MD#3 Households Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Households Model Results

Virginia - 37,000

Model results per County on following page

This model is based on a Category 1 storm making landfall near Hoopersville, MD.

Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 1 storm making landfall near Hoopersville, MD. These projections are based on information from the NHC (1100 EDT 05/16/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

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Hurricane MD#3 Households Model	
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Sources: HURREVAC LRL-DEBRIS	Page 11 of 12

US Army Corps of Engineers

Hurricane MD#3 Households Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
North Carolina		Currituck	< 1,000
North Carolina			
Virginia		Northampton	< 1,000
		Virginia Beach city	37,000
Virginia	37,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane MD#3 Households Model

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Sources:
HURREVAC
LRL-DEBRIS